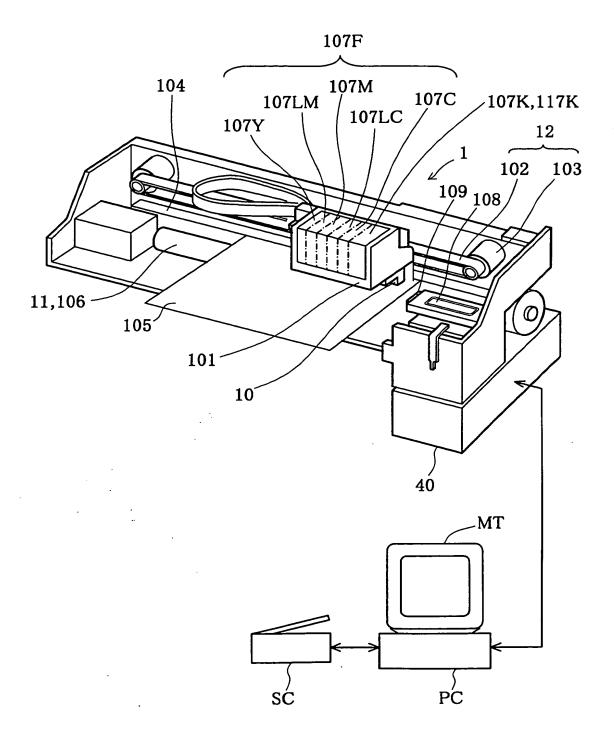
Fig. 1



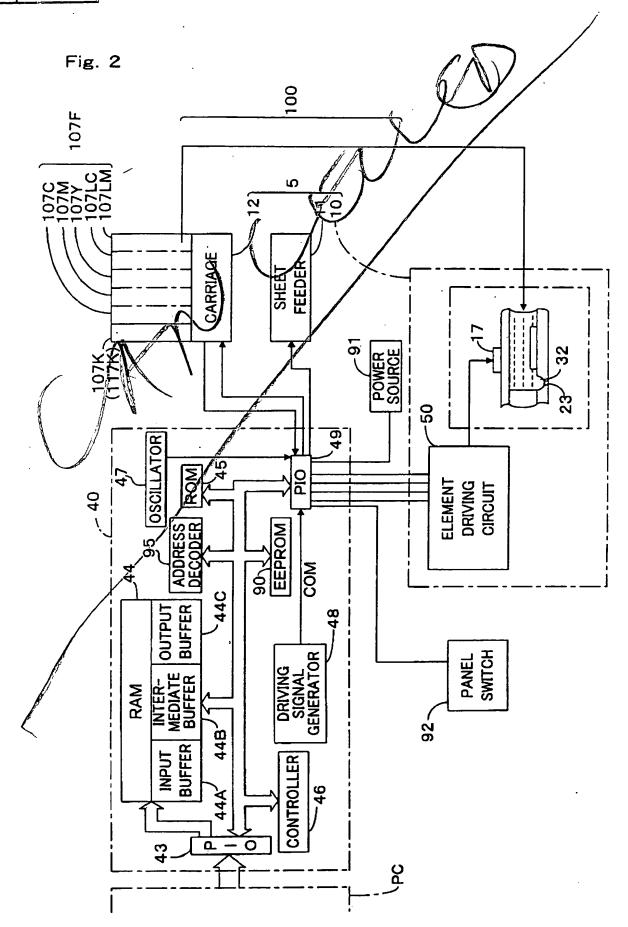


Fig. 3

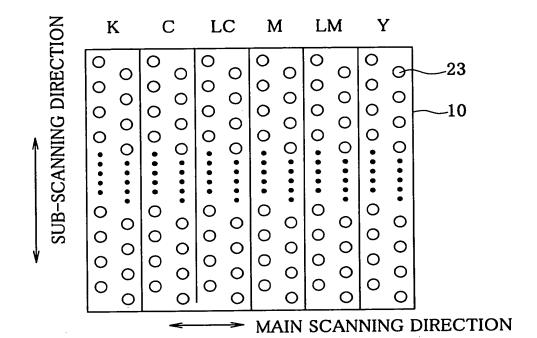


Fig. 4A

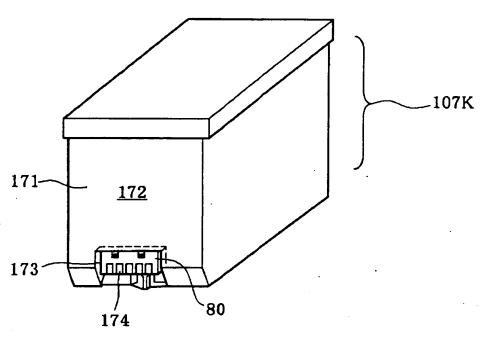


Fig. 4B

OSKETTYE 110E99

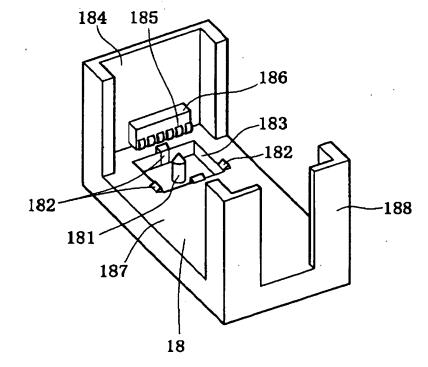


Fig. 5

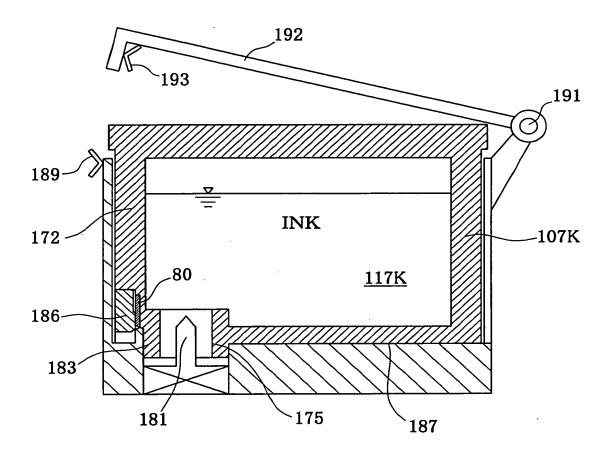


Fig.6

		80, 107K
	Contents of Information	
701	1st Data on remaining quantity of black ink	760
702	2 nd Data on remaining quantity of black ink	
711	Data on unsealed time (year)	
712	Data on unsealed time (month)	
713	Version data of ink cartridge	
714	Data on type of ink	
715	Data on year of manufacture	
716	Data on month of manufacture	
717	Data on date of manufacture	
718	Data on production line	
719	Serial number data	
720	Data on recycle	

Fig. 7

	OBLON ET AL (703) 413-3000 DOCKET # 4947-0080-2 SHEET	8	0.31	
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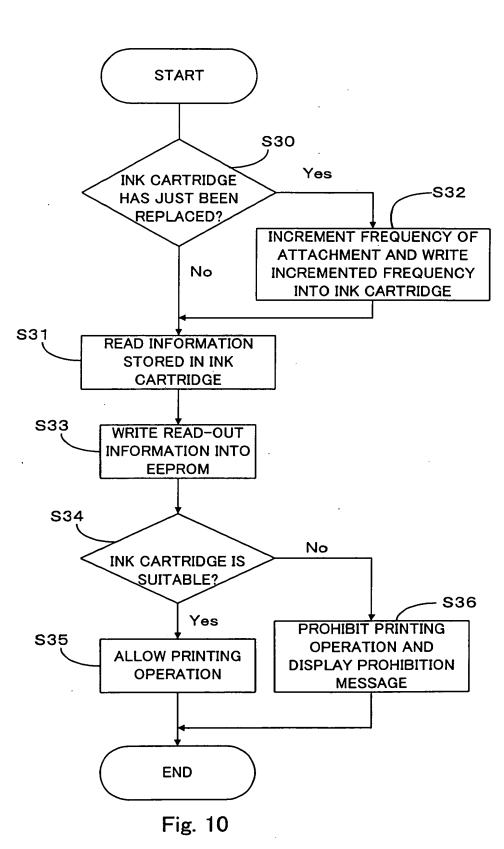
		80, 10
	Contents of Information	
601	1 st Data on remaining quantity of cyan ink	
602	2 nd Data on remaining quantity of cyan ink	
603	1st Data on remaining quantity of magenta ink	
604	2 nd Data on remaining quantity of magenta ink	
605	1 st Data on remaining quantity of yellow ink	660
606	2 nd Data on remaining quantity of yellow ink	000
607	1st Data on remaining quantity of light cyan ink	
608	2 nd Data on remaining quantity of light cyan ink	
609	1 st Data on remaining quantity of light magenta ink	
610	2 nd Data on remaining quantity of light magenta ink	
611	Data on unsealed time (year)	
612	Data on unsealed time (month)	
613	Version data of ink cartridge	
614	Data on type of ink	
615	Data on year of manufacture	650
616	Data on month of manufacture	
617	Data on date of manufacture	
618	Data on production line	
619	Serial number data	
620	Data on recycle	

Fig. 8

	Contents of Information
901	Data on remaining quantity of black ink
902	Data on unsealed time (year)
903	Data on unsealed time (month)
904	Version data of ink cartridge
905	Data on type of ink
906	Data on year of manufacture
907	Data on month of manufacture
908	Data on date of manufacture
909	Data on production line
910	Serial number data
911	Data on recycle
921	Data on remaining quantity of cyan ink
922	Data on remaining quantity of magenta ink
923	Data on remaining quantity of yellow ink
924	Data on remaining quantity of light cyan ink
925	Data on remaining quantity of light magenta ink
926	Data on unsealed time (year)
927	Data on unsealed time (month)
928	Version data of ink cartridge
929	Data on type of ink
930	Data on year of manufacture
931	Data on month of manufacture
932	Data on date of manufacture
933	Data on production line
934	Serial number data
935	Data on recycle

90, 100

Fig. 9



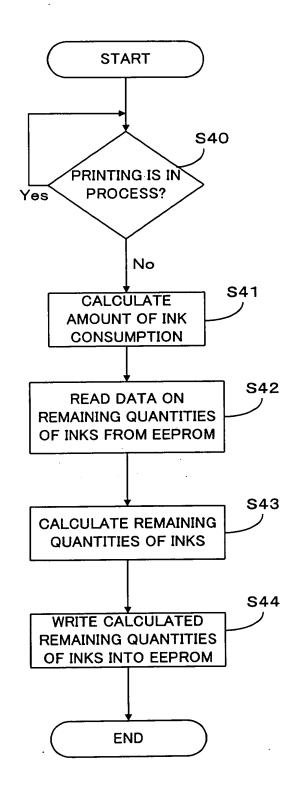


Fig. 11

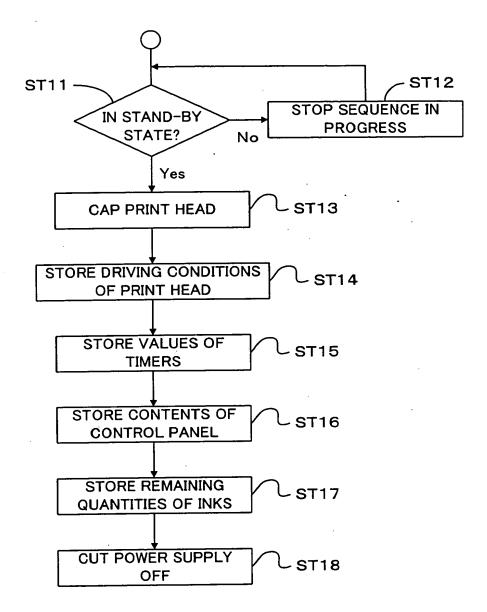


Fig. 12

Fig. 13A

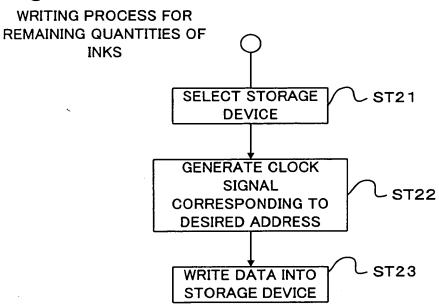
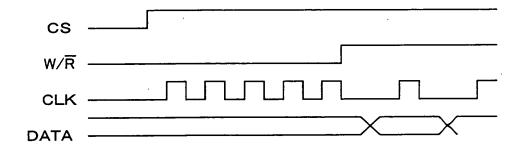
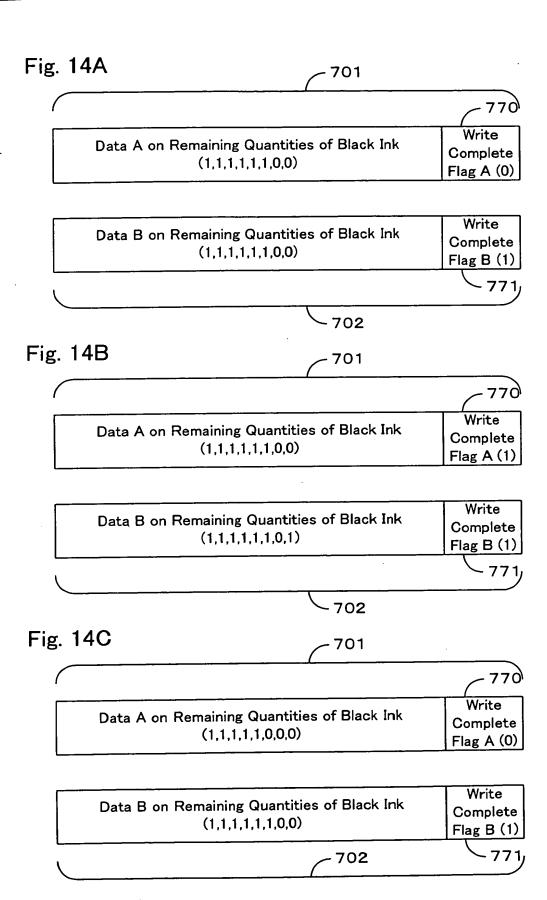
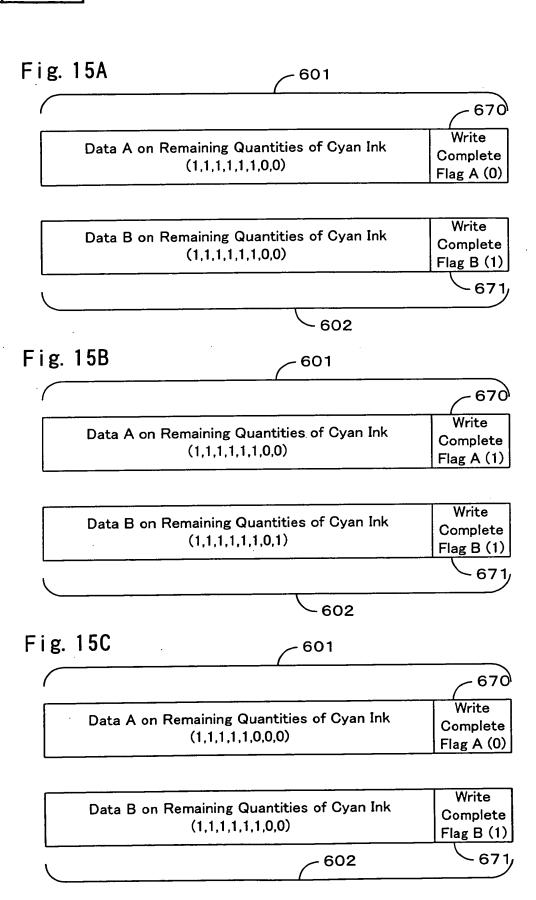
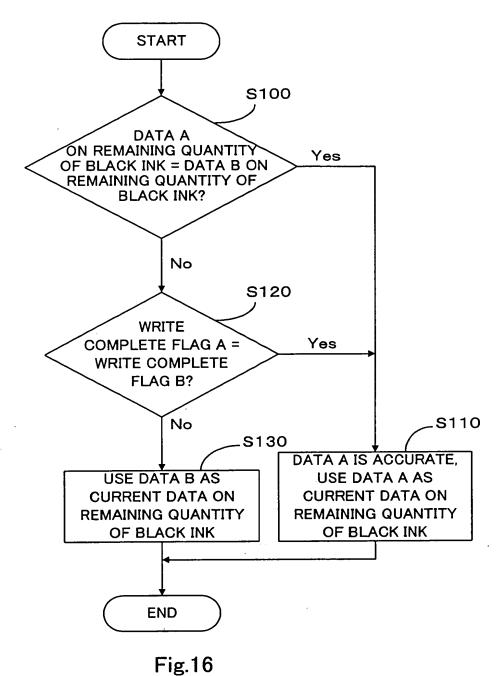


Fig. 13B









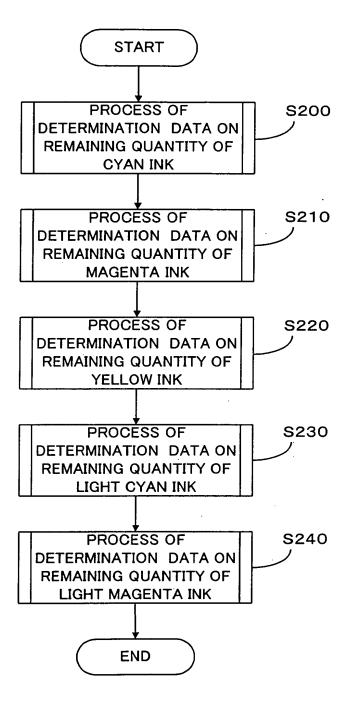


Fig. 17



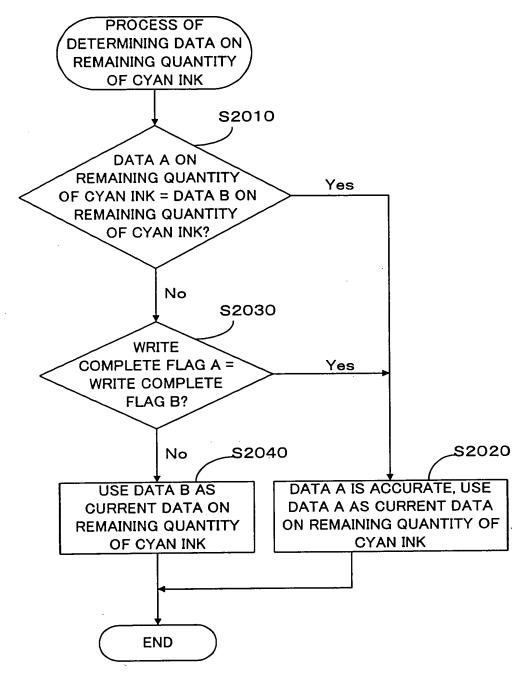


Fig.18

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	Contents of Information	800
801	1 st Data on remaining quantity of cyan ink	√ (810)
802	1 st Data on remaining quantity of magenta ink	
803	1st Data on remaining quantity of yellow ink	
804	1st Data on remaining quantity of light cyan ink	
805	1st Data on remaining quantity of light magenta ink	
870	Write complete flag A	
806	2 nd Data on remaining quantity of cyan ink	860
807	2 nd Data on remaining quantity of magenta ink	
808	2 nd Data on remaining quantity of yellow ink	
809	2 nd Data on remaining quantity of light cyan ink	
810	2 nd Data on remaining quantity of light magenta ink	
871	Write complete flag B]]
811	Data on unsealed time (year)	
812	Data on unsealed time (month)	
813	Version data of ink cartridge	·
814	Data on type of ink	
815	Data on year of manufacture	850
816	Data on month of manufacture	
817	Data on date of manufacture	
818	Data on production line	
819	Serial number data	
920	Data on recycle	

Fig. 19

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Fig.20A

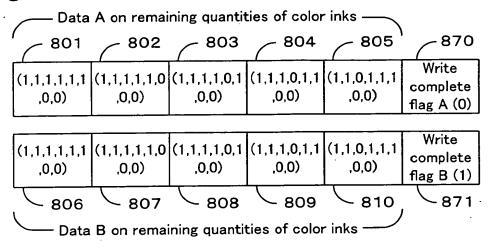


Fig.20B

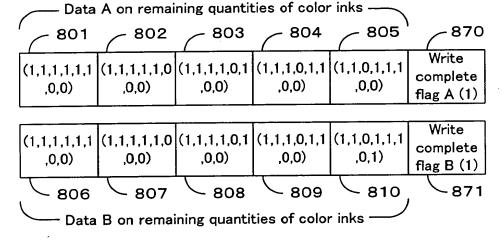
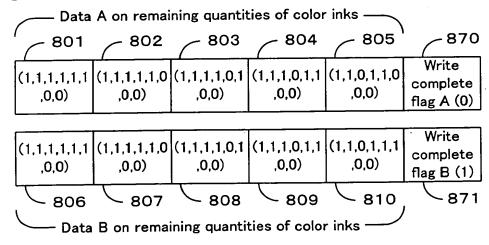
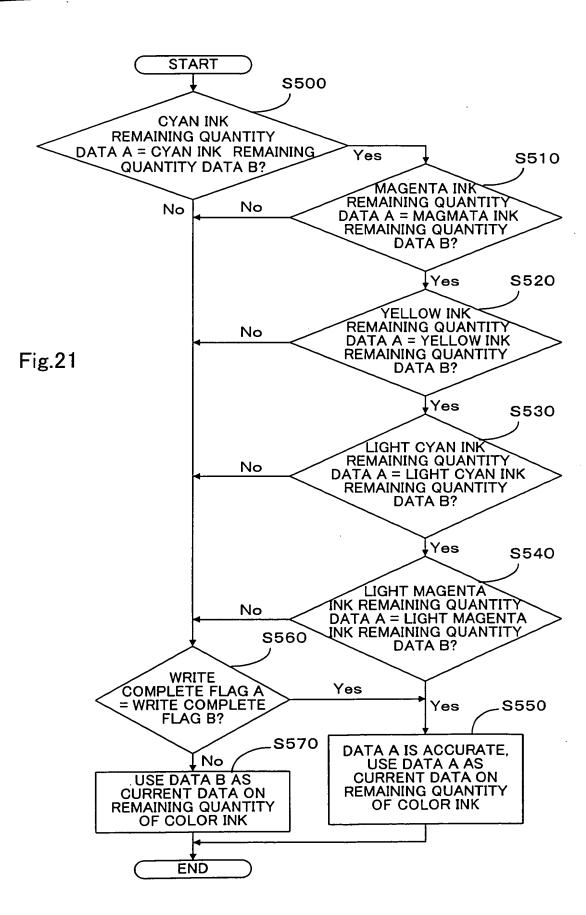


Fig.20C







Address of Control IC 200	Data Length (byte)	Items of Information	Address of Storage Element 1080	Capacity (bit) in Storage Element
00	1	Remaining quantity of black ink	00	8
01	1	Frequency of cleaning	08	8 -
02	1	Frequency of attachment	10	8
03	2	Total time period of attachment	18	16
05	1	Year of manufacture	28	7
06	1	Month of manufacture	2F	4
07	1	Date of manufacture	33	5
08	1	Hour of manufacture	38	5
09	1	Minute of manufacture	- 3D	6
· OA	1	Production serial No.	43	8
ОВ	1	Frequency of recycle	48	3
ос	2	Ink cartridge name	4E	10
0E	1	ink type	58	8
OF	1	Term of validity	60	6
10	1	Term of validity after unsealed	66	5

Address of Control IC 200	Data Length (byte)	Items of Information	Address of Storage Element 1082	Capacity (bit) in Storage Element
20	. 1	Remaining quantity of cyan ink	00	8
21	1	Remaining quantity of magenta ink	80	8
22	1	Remaining quantity of yellow ink	10	8
23	1	Remaining quantity of light cyan ink	18	8
24	1	Remaining quantity of light magenta	20	8
25	1	Frequency of cleaning	28	8
26	1	Frequency of attachment	30	8
27	2	Total time period of attachment	38	16
29	1	Year of manufacture	48	7
2A	1	Month of manufacture	4F	4
2B	1	Date of manufacture	. 53	5
2C	1	Hour of manufacture	58	5
2D	1	Minute of manufacture	5D	. 6
2E	1	Production serial No.	63	8
2F	1	Frequency of recycle	6B	3
30	2	Ink cartridge name	6 E	10
32	1	Ink type	78	8
33	1	Term of validity	80	6
34	1	Term of validity after unsealed	86	5

Fig. 23

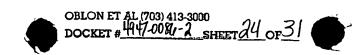
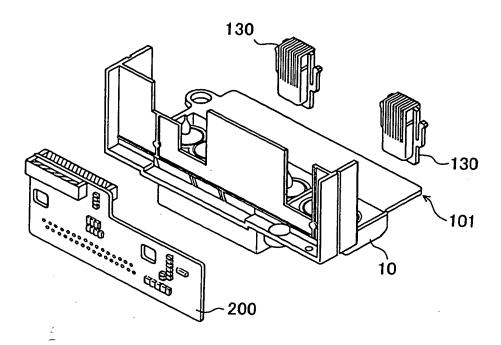
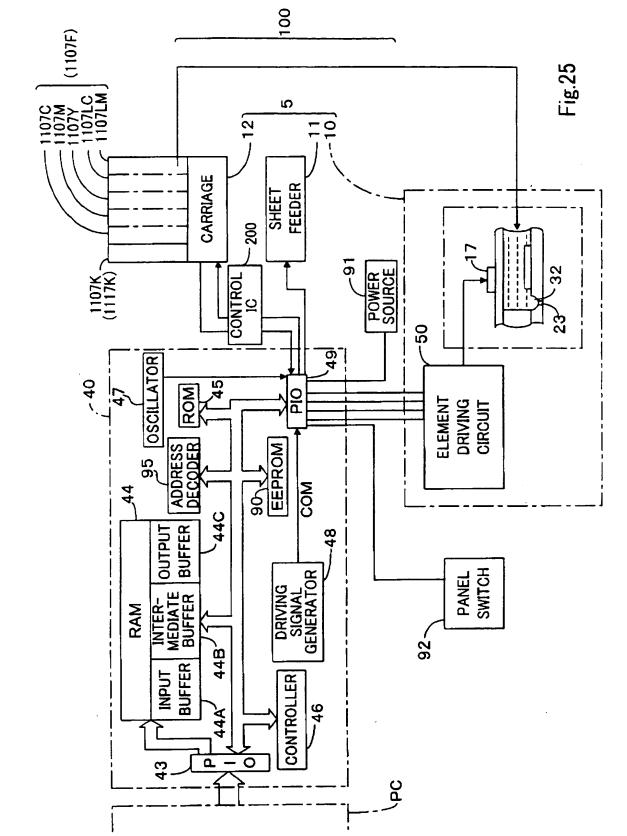


Fig. 24





. 35 - 77

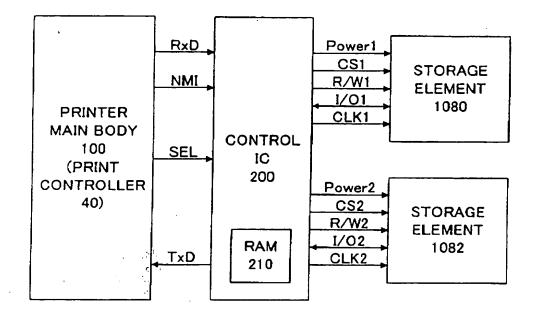
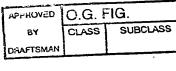
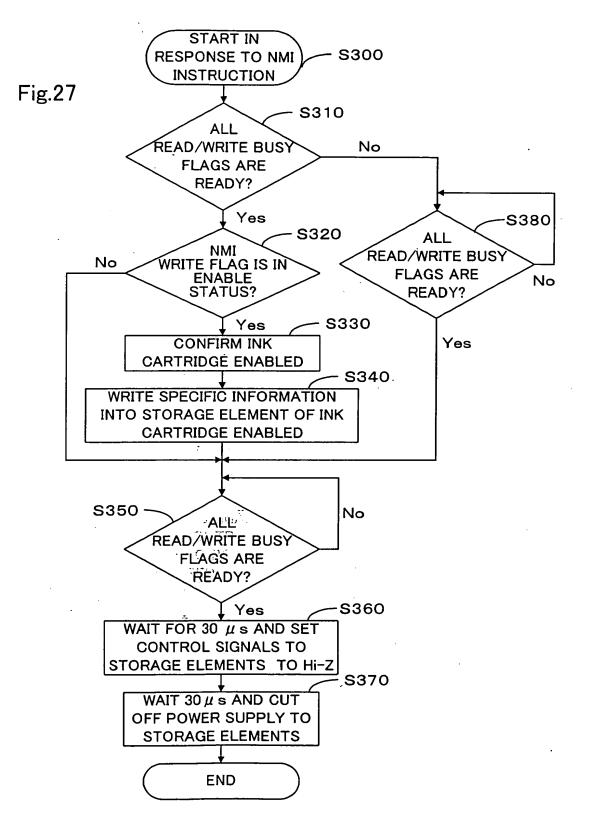
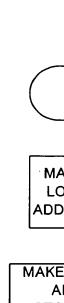


Fig.26







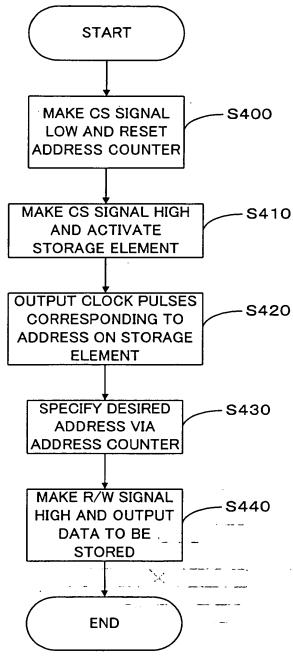


Fig.28

Fig.29

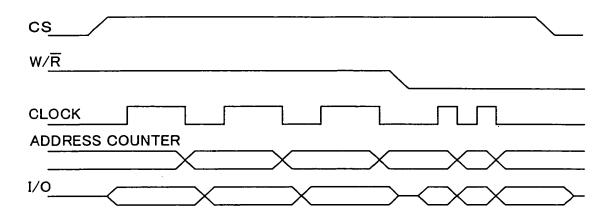
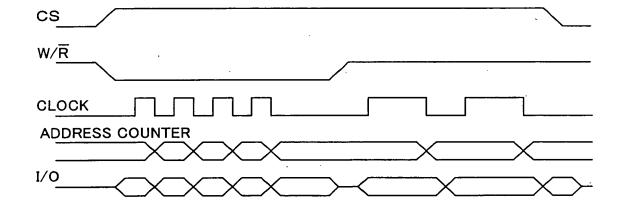


Fig.30





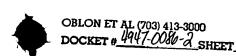
HEAD

END

FORMAT INFORMATI ON 1001 WRITABLE STORAGE AREA 1002 (INK REMAINING QUANTITY MEMORY DIVISION 1003)

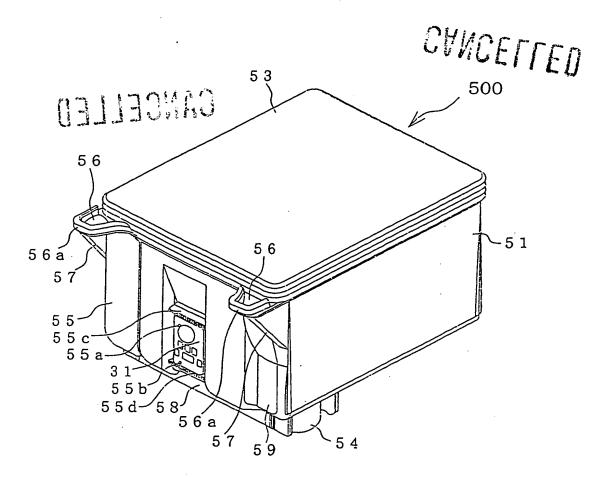
READ ONLY STORAGE AREA 1004

Fig.31



o_P3

Fig. 32



DG432272 .110299